SA-W551/W552

SERVICE MANUAL

US Model
SA-W551/W552

Canadian Model
AEP Model
UK Model
E Model
SA-W552

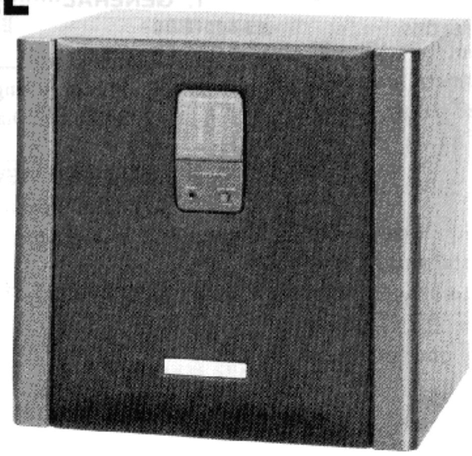

Photo : SA-W551 (E model)

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 100 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Overall output	120 W + 120 W (front, at rear/center off at 1 kHz, 8 ohms) 20 W + 20 W (rear, at center off at 1 kHz, 8 ohms) 40 W (center, at rear off at 1 kHz, 6 ohms) 40 W (super woofer, at rear/center off at 40 Hz 4 ohms)
Harmonic distortion	Less than 0.9 % (at 1 kHz, 8 ohms loads, front: 120 W + 120 W, rear/center/super woofer off)
Output	
FRONT SPEAKERS:	Accept speakers of 8 – 16 ohms
REAR SPEAKERS:	Accept speakers of 8 – 16 ohms
CENTER SPEAKER:	Accept speaker of 6 – 16 ohms
HEADPHONES:	Accepts low and high impedance Headphones

Speaker section

Type	Active super woofer (magnetically shielded design)
Speaker unit	Woofer: 20 cm (8 inches) cone type
Reproduction frequency range	25 Hz to 150 Hz

General

Power requirements	US, Canadian Mexican model : 120V AC, 60Hz AEP, German, UK model : 220 – 230V AC, 50/60Hz E, Singapore model : 110 – 120V/220 – 240V AC adjustable, 50/60Hz
Power consumption	US, E model : 280W Canadian model : 380VA AEP, German, UK, Mexican, Singapore model : 250W
Dimensions	Approx. 500×475×475mm (w/h/d) (19¾ ×18¾ ×18¾ inches) (including projecting parts and controls)
Mass	Approx. 31.0kg (68lb 6oz)

Design and specifications are subject to change without notice.

MICROFILM

ACTIVE SUPER WOOFER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

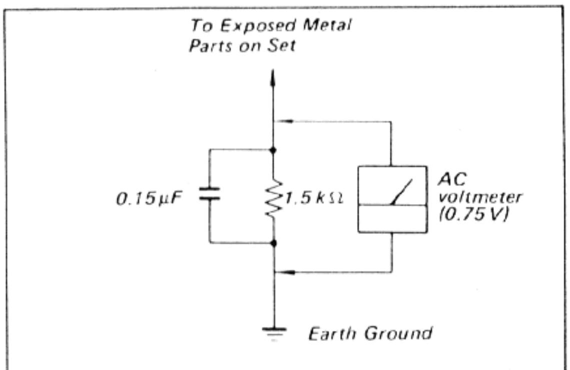

Fig. A. Using an AC voltmeter to check AC leakage.

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3. EXPLODED VIEWS

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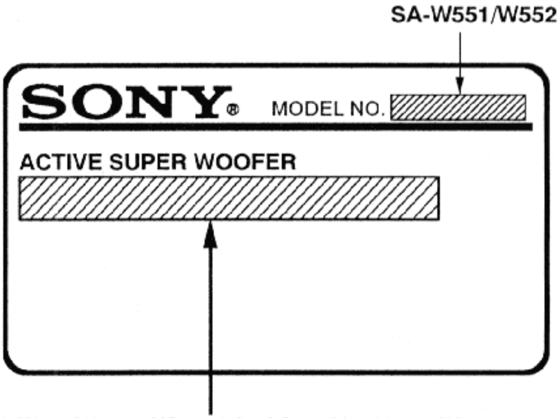
3-2. Rear Section ··· 14

4. ELECTRICAL PARTS LIST ··································· 16

MODEL IDENTIFICATION



SA-W551/W552 (US model) : AC 120V 60Hz 280W
SA-W552 (Mexican model) : AC 120V 60Hz 250W
SA-W552 (E model) : AC 110 - 120V/220 - 240V~50/60Hz 280W
SA-W552
(AEP, UK, German model) : AC 220 - 230V~50 /60Hz 250W
SA-W552 (Singapore model) : AC 110 - 120V/220 - 240V~50/60Hz 250W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

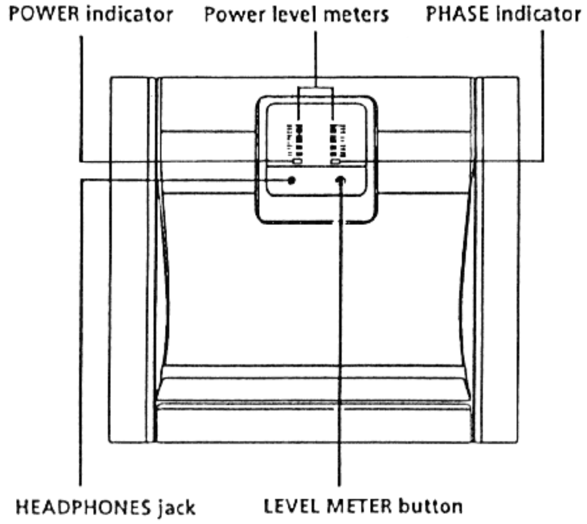
ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

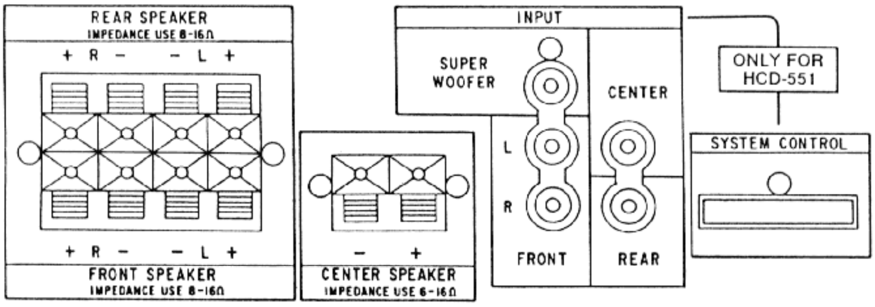
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

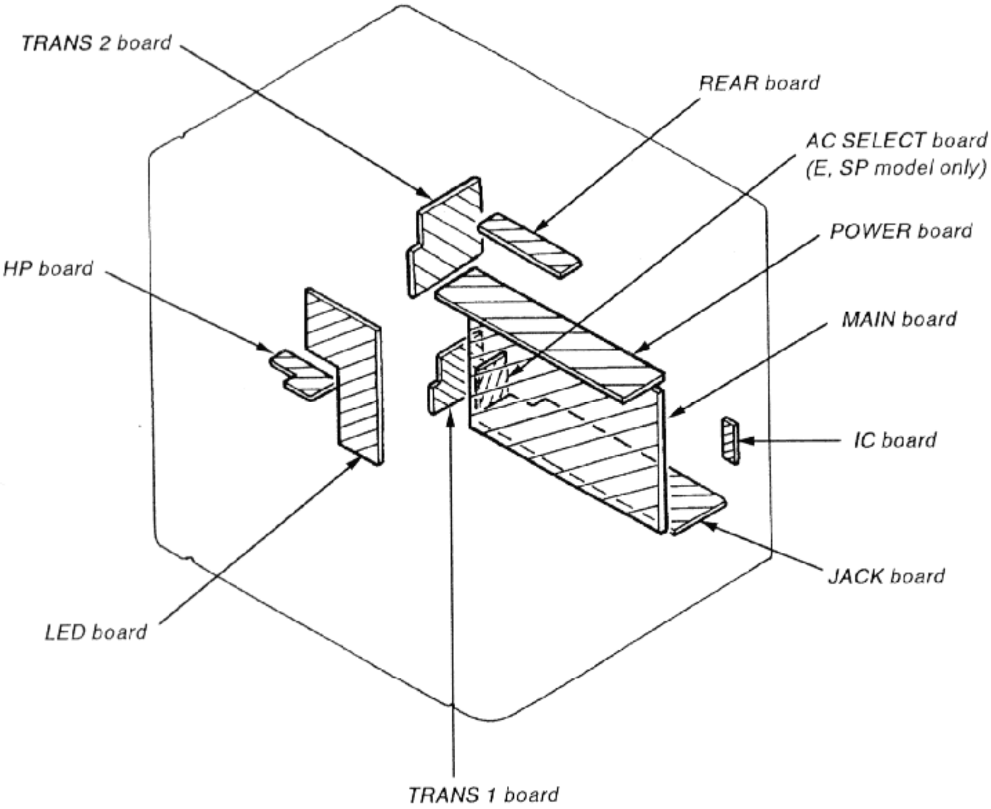
LOCATION OF CONTROLS


POWER indicator
Power level meters
PHASE indicator
HEADPHONES jack
LEVEL METER button


REAR SPEAKER
IMPEDANCE USE 8-16Ω
+ R − − L +
+ R − − L +
FRONT SPEAKER
IMPEDANCE USE 8-16Ω
− +
CENTER SPEAKER
IMPEDANCE USE 6-16Ω
INPUT
SUPER WOOFER
CENTER
L
R
FRONT
REAR
ONLY FOR HCD-551
SYSTEM CONTROL

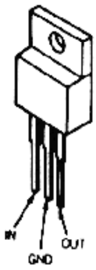
SECTION 2
DIAGRAMS

- **CIRCUIT BOARD LOCATION**

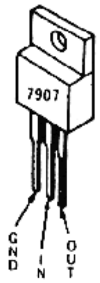

TRANS 2 board
REAR board
AC SELECT board
(E, SP model only)
POWER board
HP board
MAIN board
IC board
JACK board
LED board
TRANS 1 board

● SEMICONDUCTOR LEAD LAYOUTS

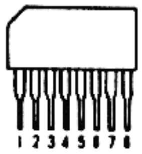
M5F7807



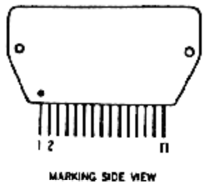
M5F7907L


7907
GND
IN
OUT

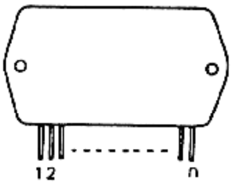
M5218AL
M5230L-A
μPC1237HA



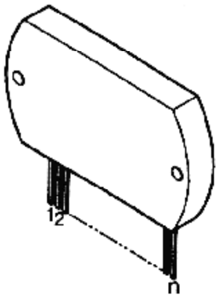
STK4030Ⅱ


1 2
n
MARKING SIDE VIEW

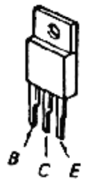
STK4231MK-2



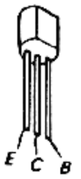
STK4221MK2



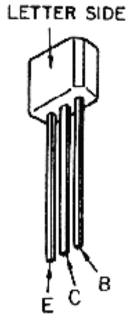
2SB1094-LK
2SD2012



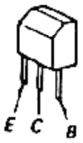
2SA1175-FEK
2SC1841-PAFAEA



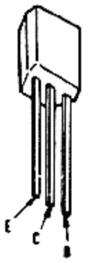
2SC2785-FEK


LETTER SIDE
E
C
B

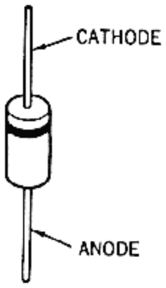
2SD1312-LKU



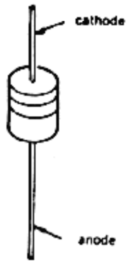
DTA124ES
DTC124ES



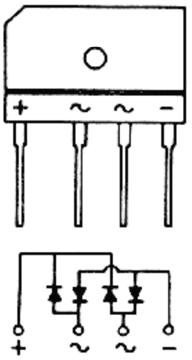
UZP-6.2B
1N4148M
1S1585


CATHODE
ANODE

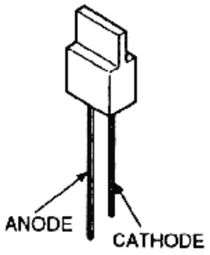
UZL-27H
11ES2


cathode
anode

D5SBA20



SEL4214S

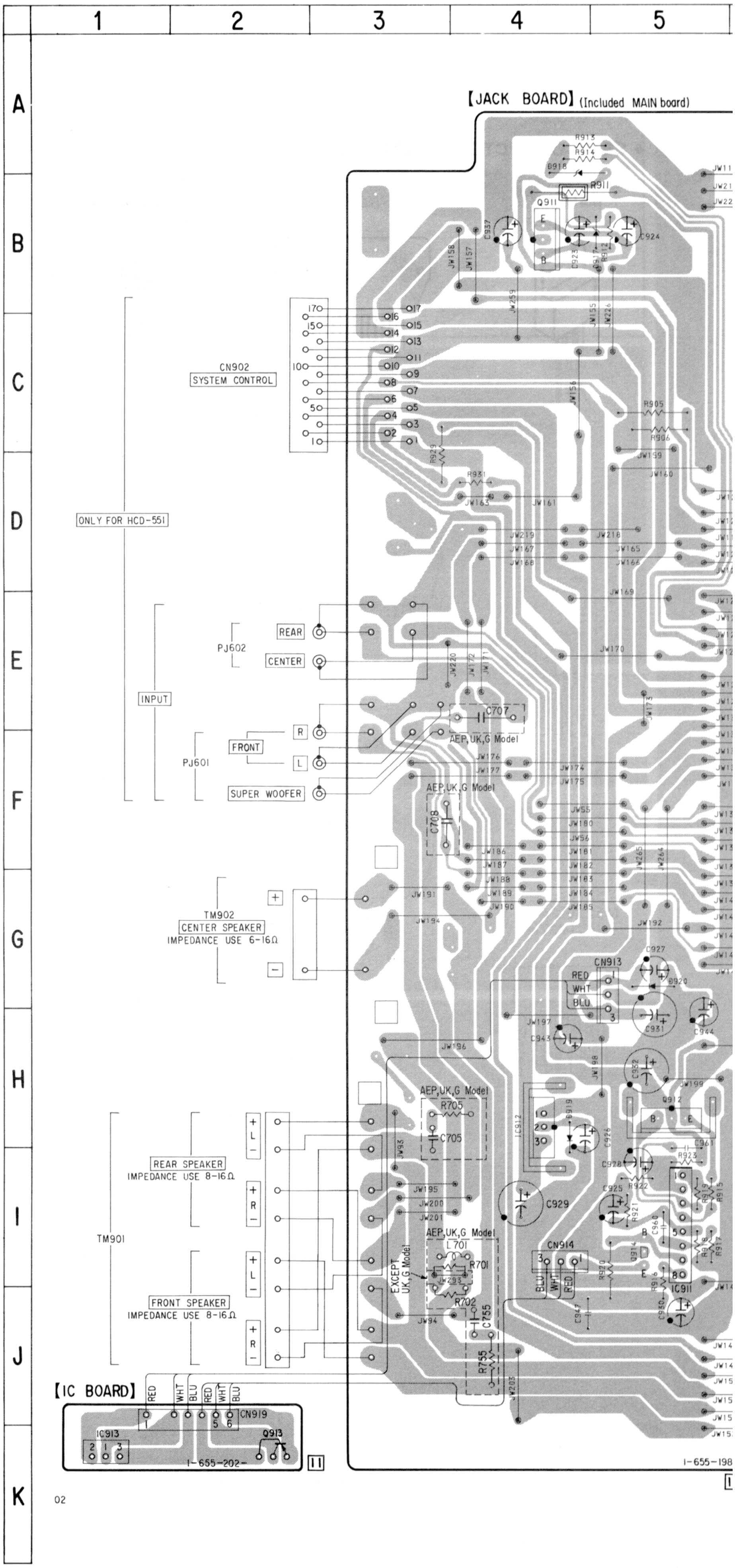

ANODE
CATHODE

2-1. PRINTED WIRING BOARDS

● Refer to page 5 for Semiconductor Lea

● SEMICONDUCTOR LOCATION

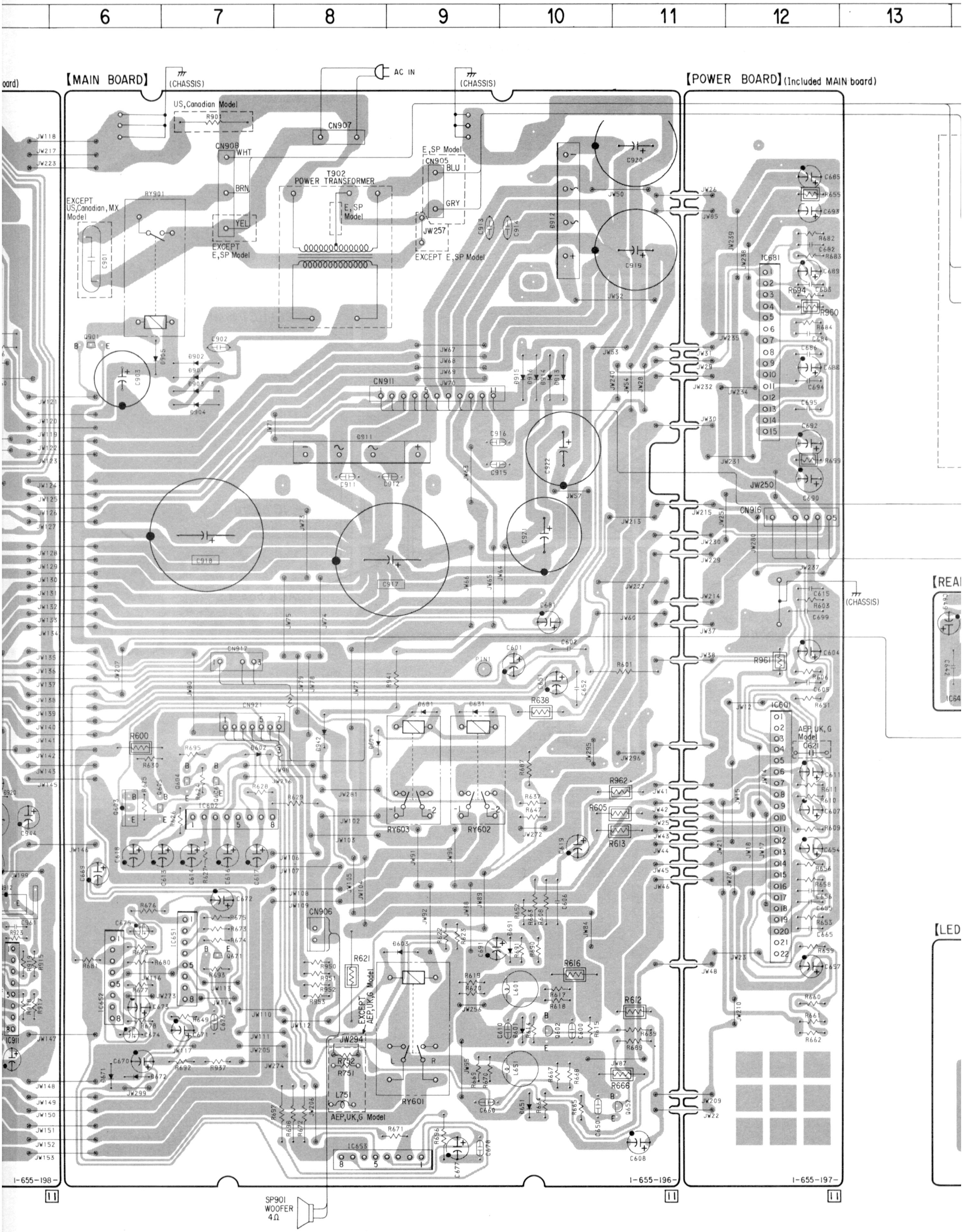
Ref. No.	Location	Ref. No.	Location
D601	I - 10	D935	J - 15
D602	G - 7	D936	J - 16
D603	I - 9	D942	G - 8
D604	G - 8		
D631	G - 9		
		IC601	G - 12
D651	J - 10	IC602	H - 7
D671	J - 6	IC631	F - 17
D672	J - 6	IC641	F - 14
D681	G - 9	IC651	I - 7
D691	I - 10		
		IC652	I - 6
D901	D - 7	IC653	K - 8
D902	D - 7	IC681	C - 12
D903	D - 7	IC901	I - 15
D904	D - 7	IC902	J - 15
D905	C - 6		
		IC911	I - 15
D911	D - 8	IC912	H - 4
D912	B - 10	IC913	K - 1
D913	D - 10		
D914	D - 10		
D915	D - 10	Q602	I - 10
		Q603	G - 6
D916	D - 10	Q604	G - 7
D917	B - 5	Q605	G - 6
D918	B - 4	Q606	G - 7
D919	H - 4		
D920	G - 5	Q652	J - 11
		Q671	I - 7
D922	I - 14	Q901	C - 6
D923	I - 15	Q911	B - 4
D924	I - 15	Q912	H - 5
D925	I - 15		
D926	I - 16	Q913	K - 2
		Q914	I - 5
D927	J - 16	Q921	J - 17
D928	I - 16		
D932	J - 14		
D933	J - 15		
D934	J - 15		

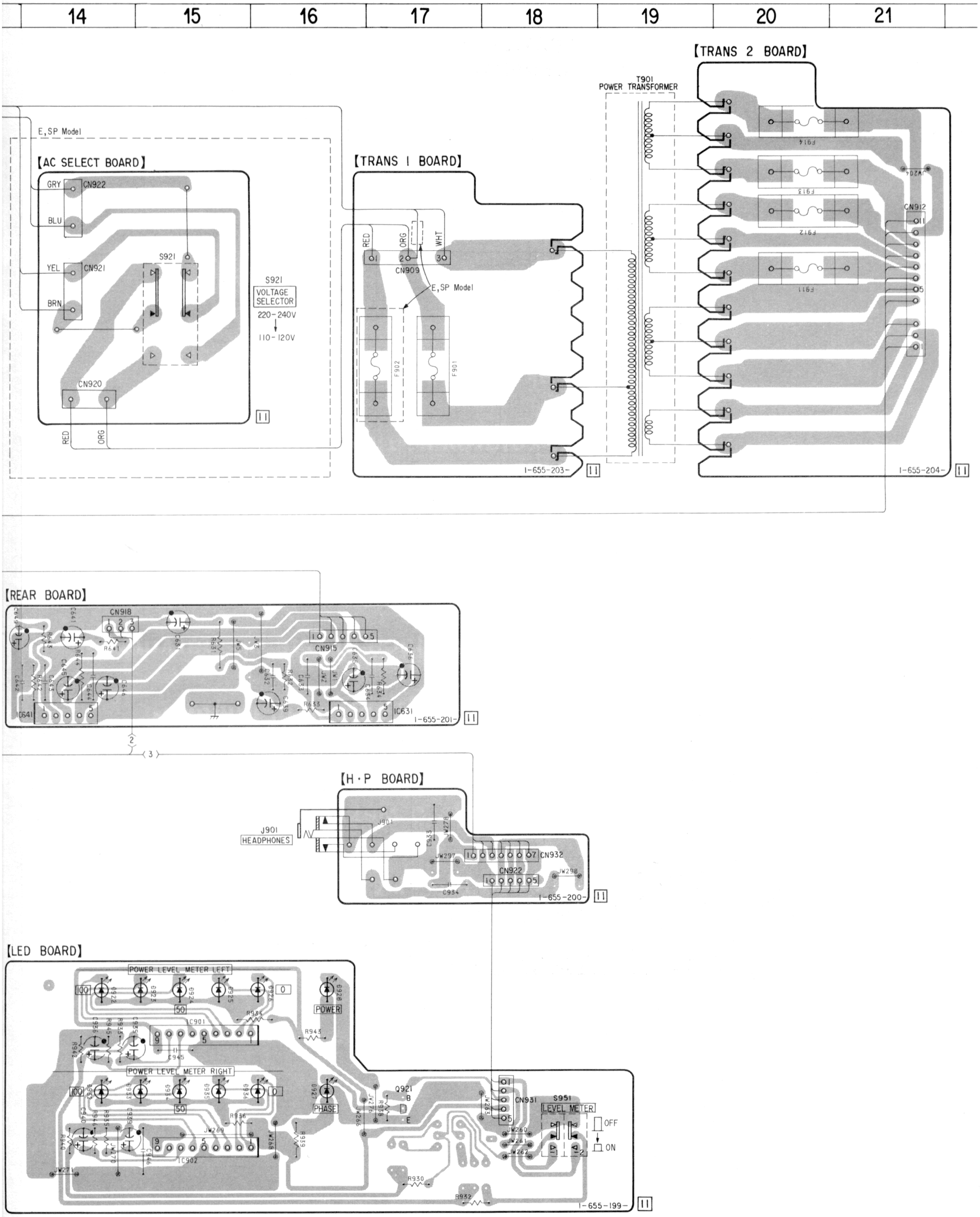

1
2
3
4
5
A
B
C
D
E
F
G
H
I
J
K
【JACK BOARD】(Included MAIN board)
CN902
SYSTEM CONTROL
ONLY FOR HCD-551
INPUT
PJ602
REAR
CENTER
PJ601
FRONT
R
L
SUPER WOOFER
AEP,UK,G Model
C707
C708
TM902
CENTER SPEAKER
IMPEDANCE USE 6-16Ω
CN913
RED
WHT
BLU
TM901
REAR SPEAKER
IMPEDANCE USE 8-16Ω
FRONT SPEAKER
IMPEDANCE USE 8-16Ω
R705
C705
L701
R701
R702
C755
R755
EXCEPT UK,G Model
C929
CN914
IC911
IC912
Q911
Q912
Q914
【IC BOARD】
CN919
IC913
Q913
1-655-202-
11
1-655-198
02

Note:

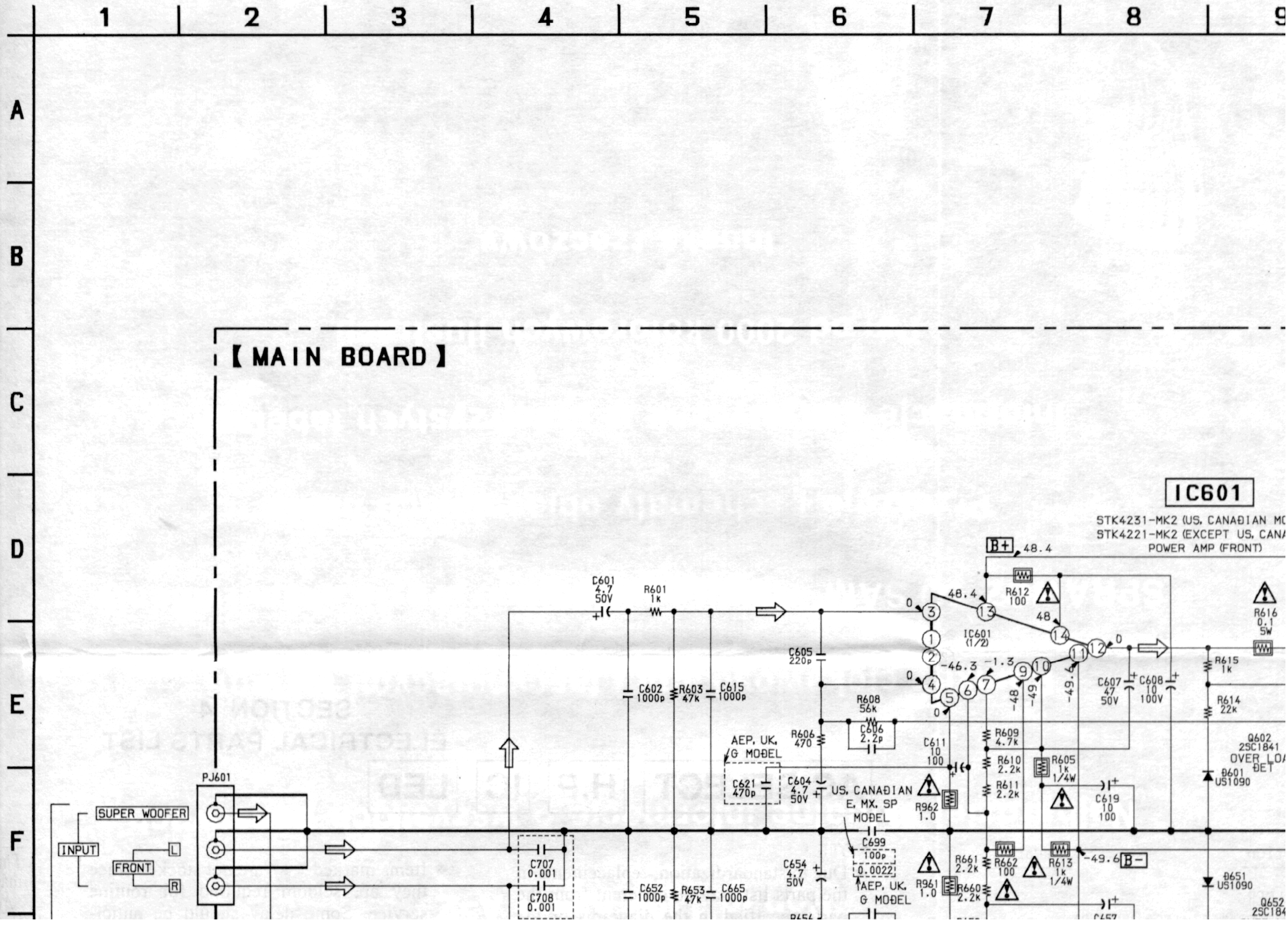
- ○— : parts extracted from the component side.
- ░░ : Pattern on the side which is seen.
- Abbreviations
  - G : German
  - MX : Mexican
  - SP : Singapore

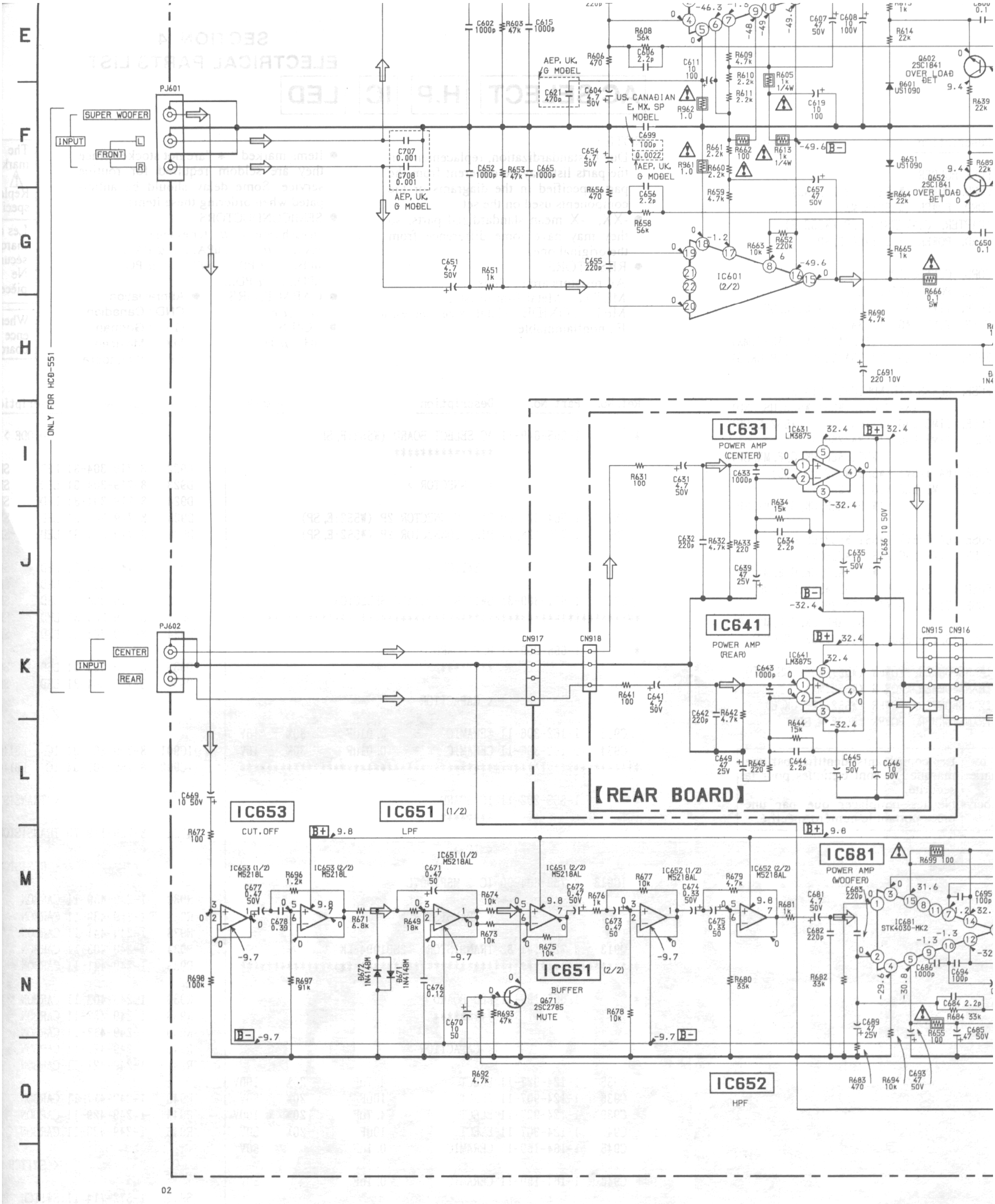
tor Lead Layouts.

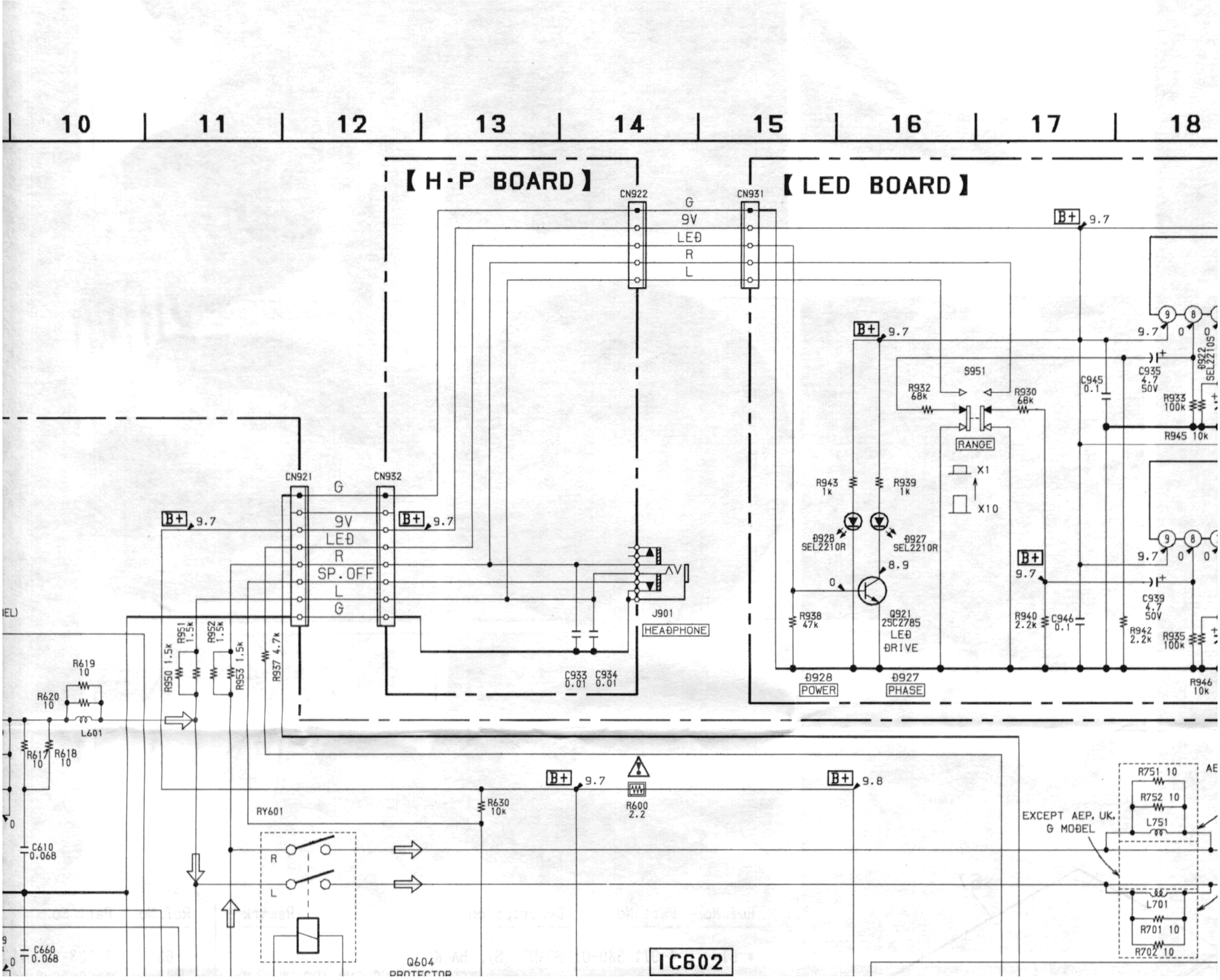

6
7
8
9
10
11
12
13
oard)
【MAIN BOARD】
(CHASSIS)
AC IN
【POWER BOARD】(Included MAIN board)
US,Canadian Model
R901
CN907
CN908
WHT
BRN
YEL
EXCEPT E,SP Model
EXCEPT US,Canadian,MX Model
RY901
C901
T902 POWER TRANSFORMER
E,SP Model
CN905
BLU
GRY
JW257
EXCEPT E,SP Model
D912
C920
C919
CN911
D911
C918
C917
C921
C922
CN917
CN921
R600
IC602
IC651
IC652
IC911
CN906
R621
RY603
RY602
RY601
EXCEPT AEP,UK,G Model
JW294
R752
R751
L751
AEP,UK,G Model
IC653
R616
L601
L651
R612
R666
R962
R605
R613
R638
R961
IC681
IC601
CN916
JW250
AEP,UK,G Model
C621
(CHASSIS)
【REA
【LED
1-655-198-
1-655-196-
1-655-197-
11
SP901
WOOFER
4Ω

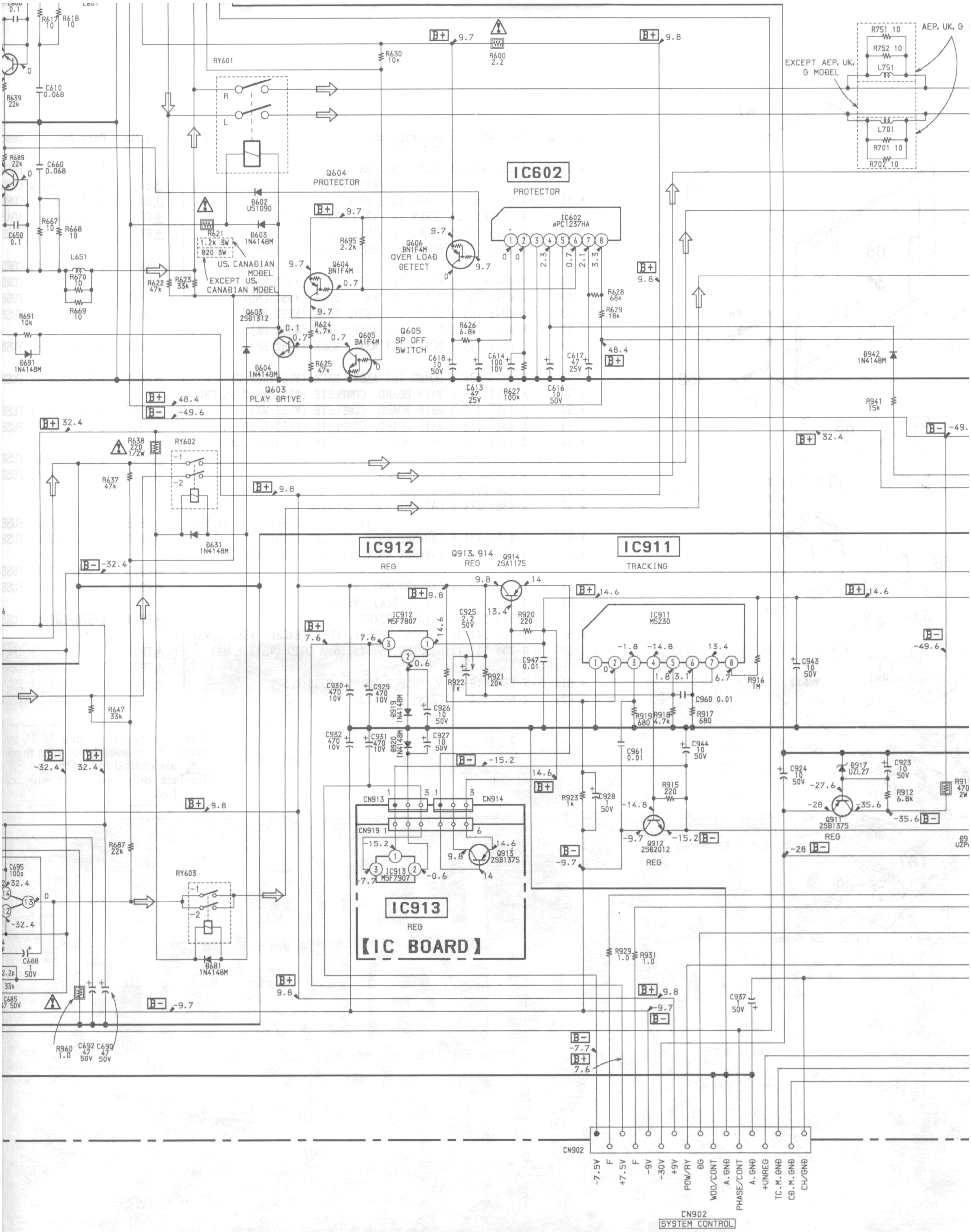

14
15
16
17
18
19
20
21
【TRANS 2 BOARD】
T901
POWER TRANSFORMER
E,SP Model
【AC SELECT BOARD】
GRY
CN922
BLU
YEL
CN921
BRN
S921
S921
VOLTAGE SELECTOR
220-240V
110-120V
CN920
RED
ORG
【TRANS 1 BOARD】
RED
ORG
WHT
CN909
E,SP Model
F902
F901
1-655-203-
F914
F913
F912
F911
JW204
CN912
1-655-204-
【REAR BOARD】
CN918
C641
C649
R643
R641
C631
R631
JW5
JW3
CN915
C636
C642
R642
C645
C643
C644
C646
C632
R632
C633
JW2
JW1
C635
C634
R634
R633
C639
IC641
IC631
1-655-201-
2
3
【H·P BOARD】
J901
HEADPHONES
J901
C933
JW278
JW297
CN932
CN922
JW298
C934
1-655-200-
【LED BOARD】
POWER LEVEL METER LEFT
100
0
50
D922
D923
D924
D925
D926
D928
POWER
R934
IC901
R943
C956
R945
C955
R942
C945
POWER LEVEL METER RIGHT
100
0
50
D932
D933
D934
D935
D936
D927
PHASE
Q921
B
E
R938
JW276
JW266
JW263
CN931
S951
LEVEL METER
OFF
ON
JW260
JW261
JW262
C940
R935
C959
R940
JW270
C946
R936
JW269
IC902
JW268
R939
JW271
R930
R932
1-655-199-
11

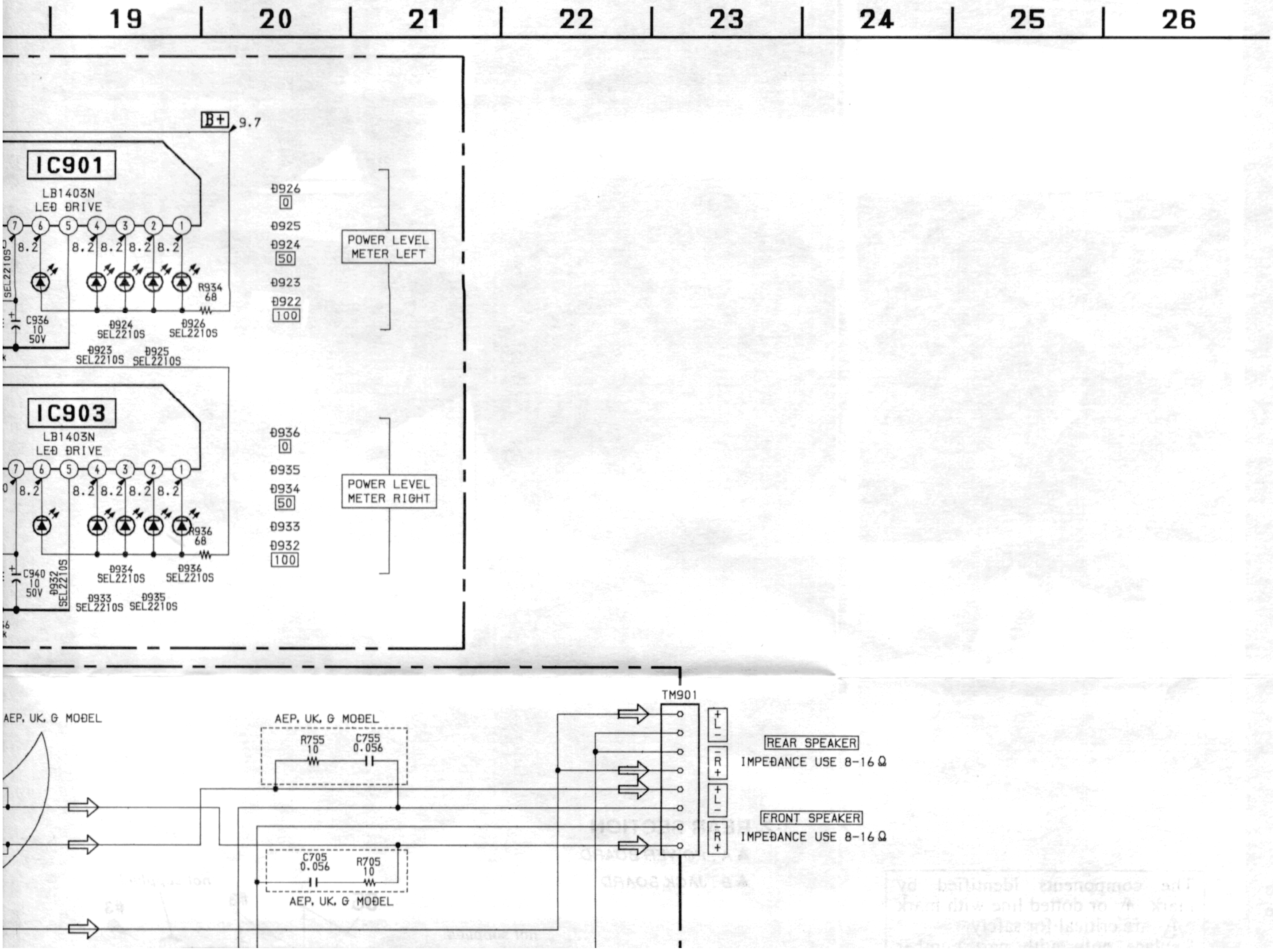
2-2. SCHEMATIC DIAGRAM

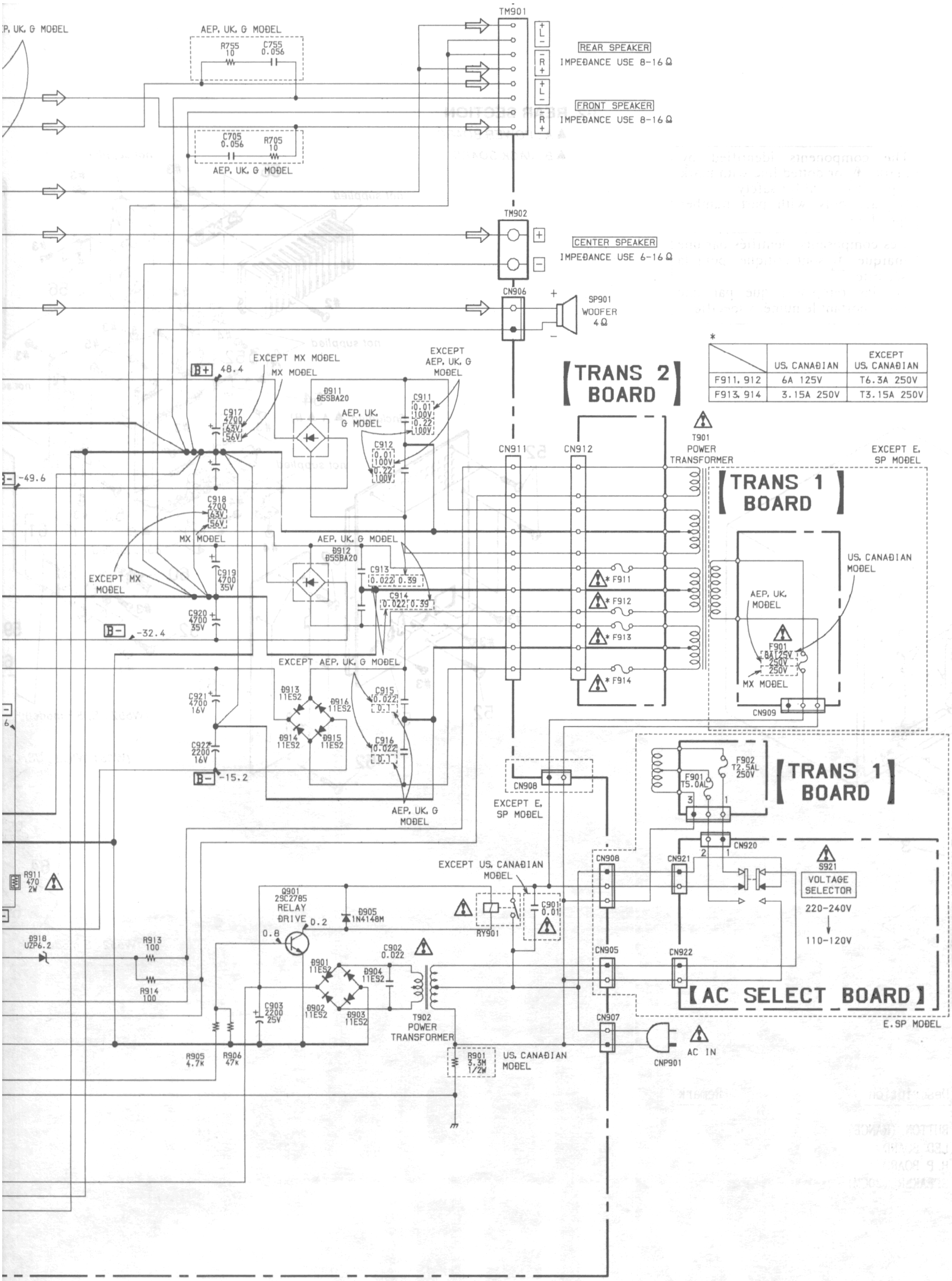

1
2
3
4
5
6
7
8
A
B
C
D
E
F
【MAIN BOARD】
IC601
STK4231-MK2 (US, CANADIAN MO
STK4221-MK2 (EXCEPT US, CANA
POWER AMP (FRONT)
B+
48.4
48.4
R612
100
48
0
0
IC601
(1/2)
-46.3
-1.3
-48
-49
-49.6
0
0
R616
0.1
5W
R615
1k
R614
22k
C607
47
50V
C608
10
100V
Q602
2SC1841
OVER LOAD
DET
D601
US1090
D651
US1090
Q652
2SC184
C601
4.7
50V
R601
1k
C605
220p
C602
1000p
R603
47k
C615
1000p
R608
56k
C606
2.2p
R606
470
AEP, UK,
G MODEL
C621
470p
C604
4.7
50V
US, CANADIAN
E, MX, SP
MODEL
C699
100p
0.0022
AEP, UK,
G MODEL
C611
10
100
R962
1.0
R961
1.0
R609
4.7k
R610
2.2k
R611
2.2k
R605
1k
1/4W
C619
10
100
R661
2.2k
R662
100
R613
1k
1/4W
-49.6
B-
R660
2.2k
C654
4.7
50V
C652
1000p
R653
47k
C665
1000p
C707
0.001
C708
0.001
PJ601
SUPER WOOFER
INPUT
FRONT
L
R


E
F
G
H
I
J
K
L
M
N
O
PJ601
INPUT
SUPER WOOFER
FRONT
L
R
ONLY FOR HCD-551
PJ602
INPUT
CENTER
REAR
C707 0.001
C708 0.001
AEP, UK, G MODEL
C602 1000p
R603 47k
C615 1000p
AEP, UK, G MODEL
C621 470p
C604 4.7 50V
US, CANADIAN E, MX, SP MODEL
C699 100p 0.0022
AEP, UK, G MODEL
R962 1.0
R961 1.0
R606 470
R608 56k
C606 2.2p
C611 10 100
R609 4.7k
R610 2.2k
R611 2.2k
R605 1k 1/4W
C619 10 100
C607 47 50V
C608 10 100V
R614 22k
Q602 2SC1841 OVER LOAD DET
D601 US1090
R639 22k
C654 4.7 50V
C652 1000p
R653 47k
C665 1000p
R656 470
C656 2.2p
R658 56k
R661 2.2k
R660 2.2k
R662 100
R613 1k 1/4W
R659 4.7k
C657 47 50V
D651 US1090
Q652 2SC1841 OVER LOAD DET
R689 22k
R664 22k
C650 0.1
C651 4.7 50V
R651 1k
C655 220p
R663 10k
R652 220k
IC601 (2/2)
R665 1k
R666 0.1 5W
R690 4.7k
C691 220 10V
IC631
LM3875
POWER AMP (CENTER)
R631 100
C631 4.7 50V
C633 1000p
R634 15k
C632 220p
R632 4.7k
R633 220
C634 2.2p
C635 10 50V
C636 10 50V
C639 47 25V
IC641
POWER AMP (REAR)
IC641 LM3875
C643 1000p
R641 100
C641 4.7 50V
C642 220p
R642 4.7k
R644 15k
C649 47 25V
R643 220
C644 2.2p
C645 10 50V
C646 10 50V
CN917
CN918
CN915
CN916
【REAR BOARD】
C669 10 50V
R672 100
IC653
CUT.OFF
IC653 (1/2) M5218L
C677 0.47 50V
R696 1.2k
IC653 (2/2) M5218L
C678 0.39
R698 100k
R697 91k
IC651 (1/2)
LPF
IC651 (1/2) M5218AL
C671 0.47 50
R671 6.8k
R649 18k
D672 1N4148M
D671 1N4148M
C676 0.12
R674 10k
R673 10k
IC651 (2/2) M5218AL
C672 0.47 50V
R675 10k
IC651 (2/2)
BUFFER
Q671 2SC2785 MUTE
C670 10 50
R693 47k
R676 1k
C673 0.47 50
R677 10k
IC652 (1/2) M5218AL
C674 0.33 50V
R678 10k
R679 4.7k
IC652 (2/2) M5218AL
C675 0.33 50
R680 33k
R681 1k
R692 4.7k
IC652
HPF
IC681
POWER AMP (WOOFER)
R699 100
C681 4.7 50V
C683 220p
C682 220p
IC681 STK4030-MK2
C695 100p
C686 1000p
C694 100p
R682 33k
C684 2.2p
R684 33k
C689 47 25V
R655 100
C685 47 50V
R683 470
R694 10k
C693 47 50V
B+
B−
9.8
32.4
-32.4
-49.6
-9.7
02


10
11
12
13
14
15
16
17
18
【H·P BOARD】
【LED BOARD】
CN922
CN931
CN921
CN932
G
9V
LED
R
L
SP.OFF
B+ 9.7
B+ 9.8
J901
HEADPHONE
C933 0.01
C934 0.01
R950 1.5k
R951 1.5k
R952 1.5k
R953 1.5k
R937 4.7k
R619 10
R620 10
L601
R617 10
R618 10
C610 0.068
C660 0.068
RY601
R630 10k
R600 2.2
Q604 PROTECTOR
IC602
S951
R932 68k
R930 68k
RANGE
X1
X10
R943 1k
R939 1k
D928 SEL2210R
D927 SEL2210R
8.9
0
Q921 2SC2785
LED DRIVE
R938 47k
R940 2.2k
C946 0.1
C945 0.1
C935 4.7 50V
D922 SEL2210S
R933 100k
R945 10k
C939 4.7 50V
R942 2.2k
R935 100k
R946 10k
D928 POWER
D927 PHASE
R751 10
R752 10
L751
L701
R701 10
R702 10
EXCEPT AEP, UK, G MODEL
AE
9
8
EL)

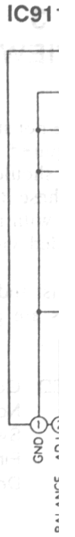

RY601
R
L
R630 10k
R600 2.2
B+ 9.7
B+ 9.8
R751 10
R752 10
L751
L701
R701 10
R702 10
AEP, UK, G
EXCEPT AEP, UK, G MODEL
IC602
PROTECTOR
IC602 μPC1237HA
Q604 PROTECTOR
Q604 BN1F4M
Q606 BN1F4M OVER LOAD DETECT
Q605 BA1F4M
Q605 SP OFF SWITCH
Q603 2SB1312
Q603 PLAY DRIVE
D602 U51090
D603 1N4148M
D604 1N4148M
R621 1.2k 3W
820 3W
US, CANADIAN MODEL
EXCEPT US, CANADIAN MODEL
R622 47k
R623 33k
R695 2.2k
R624 4.7k
R625 47k
R626 6.8k
R627 100k
R628 68k
R629 18k
C618 10 50V
C613 47 25V
C614 100 10V
C616 10 50V
C617 47 25V
B+ 48.4
B- -49.6
B+ 32.4
R638 220 1/2W
RY602
R637 47k
D631 1N4148M
B- -32.4
D942 1N4148M
R941 15k
B- -49.6
IC912
REG
Q913, 914
REG
Q914 2SA1175
IC911
TRACKING
IC912 M5F7807
IC911 M5230
R920 220
R921 20k
R922 1k
C925 2.2 50V
C947 0.01
C930 470 10V
C929 470 10V
C931 470 10V
C932 470 10V
C926 10 50V
C927 10 50V
D919 1N4148M
D920 1N4148M
B+ 14.6
B+ 7.6
B+ 9.8
C943 10 50V
R916 1M
R919 680
R918 4.7k
R917 680
C960 0.01
C961 0.01
C944 10 50V
B- -15.2
R915 220
C928 1 50V
R923 1k
Q912 2SB2012
REG
C924 10 50V
C923 10 50V
D917 UZL27
R912 6.8k
Q911 2SB1375
REG
B- -35.6
B- -28
CN913
CN914
CN919
IC913 M5F7907
Q913 2SB1375
IC913
REG
【IC BOARD】
R647 33k
R687 22k
RY603
D681 1N4148M
R929 1.0
R931 1.0
C937 1 50V
B+ 9.8
B- -9.7
B- -7.7
B+ 7.6
R960 1.0
C692 47 50V
C690 47 50V
C695 100p
C688 1 50V
C685 47 50V
R617 10
R618 10
C610 0.068
R639 22k
R689 22k
C660 0.068
R667 10
R668 10
C650 0.1
L651
R670 10
R669 10
R691 10k
D691 1N4148M
CN902
-7.5V
F
+7.5V
F
-9V
-30V
+9V
POW/RY
DG
WOO/CONT
A.GND
PHASE/CONT
A.GND
+UNREG
TC.M.GND
CD.M.GND
CH/GND
CN902
SYSTEM CONTROL
ONYL FOR HC0-551


19
20
21
22
23
24
25
26
B+
9.7
IC901
LB1403N
LED DRIVE
7
6
5
4
3
2
1
8.2
8.2
8.2
8.2
8.2
SEL2210S
R934
68
C936
10
50V
D924
SEL2210S
D926
SEL2210S
D923
SEL2210S
D925
SEL2210S
D926
0
D925
D924
50
D923
D922
100
POWER LEVEL
METER LEFT
IC903
LB1403N
LED DRIVE
7
6
5
4
3
2
1
0
8.2
8.2
8.2
8.2
8.2
R936
68
C940
10
50V
D932
SEL2210S
D934
SEL2210S
D936
SEL2210S
D933
SEL2210S
D935
SEL2210S
D936
0
D935
D934
50
D933
D932
100
POWER LEVEL
METER RIGHT
AEP, UK, G MODEL
AEP, UK, G MODEL
R755
10
C755
0.056
C705
0.056
R705
10
AEP, UK, G MODEL
TM901
+
L
-
-
R
+
+
L
-
-
R
+
REAR SPEAKER
IMPEDANCE USE 8-16 Ω
FRONT SPEAKER
IMPEDANCE USE 8-16 Ω


AEP, UK, G MODEL
AEP, UK, G MODEL
R755 10
C755 0.056
C705 0.056
R705 10
AEP, UK, G MODEL
TM901
+ L −
− R +
+ L −
− R +
REAR SPEAKER
IMPEDANCE USE 8-16Ω
FRONT SPEAKER
IMPEDANCE USE 8-16Ω
TM902
+
−
CENTER SPEAKER
IMPEDANCE USE 6-16Ω
CN906
+
−
SP901 WOOFER 4Ω
EXCEPT MX MODEL
MX MODEL
B+ 48.4
EXCEPT AEP, UK, G MODEL
D911 D5SBA20
C911 0.01 100V 0.22 100V
AEP, UK, G MODEL
C912 0.01 100V 0.22 100V
C917 4700 63V 56V
B− -49.6
C918 4700 63V 56V
MX MODEL
AEP, UK, G MODEL
D912 D5SBA20
C913 0.022 0.39
C914 0.022 0.39
C919 4700 35V
EXCEPT MX MODEL
C920 4700 35V
B− -32.4
EXCEPT AEP, UK, G MODEL
D913 11ES2
D916 11ES2
D914 11ES2
D915 11ES2
C915 0.022 0.1
C916 0.022 0.1
C921 4700 16V
C922 2200 16V
B− -15.2
AEP, UK, G MODEL
TRANS 2 BOARD
CN911
CN912
T901 POWER TRANSFORMER
EXCEPT E, SP MODEL
TRANS 1 BOARD
US, CANADIAN MODEL
AEP, UK, MODEL
F901 8A 125V 250V 250V
MX MODEL
CN909
* F911
* F912
* F913
* F914
CN908
EXCEPT E, SP MODEL
F902 T2.5AL 250V
F901 T5.0AL
3 1
TRANS 1 BOARD
CN920
2 1
CN908
CN921
S921 VOLTAGE SELECTOR
220-240V
110-120V
CN905
CN922
AC SELECT BOARD
E, SP MODEL
CN907
AC IN
CNP901
EXCEPT US, CANADIAN MODEL
RY901
C901 0.01
Q901 2SC2785 RELAY DRIVE
0.8
0.2
D905 1N4148M
R911 470 2W
D918 UZP6.2
R913 100
R914 100
C902 0.022
D901 11ES2
D904 11ES2
D902 11ES2
D903 11ES2
C903 2200 25V
T902 POWER TRANSFORMER
R905 4.7k
R906 47k
R901 3.3M 1/2W
US, CANADIAN MODEL

*

	US, CANADIAN	EXCEPT US, CANADIAN
F911, 912	6A 125V	T6.3A 250V
F913, 914	3.15A 250V	T3.15A 250V



Note

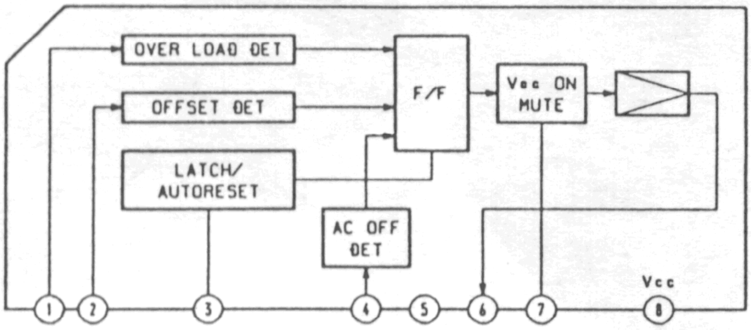
- All ca
50WV
tanta
- All re
speci
- △ :
-

Note
The c
fied b
ted lir
are cr
Repla
numb

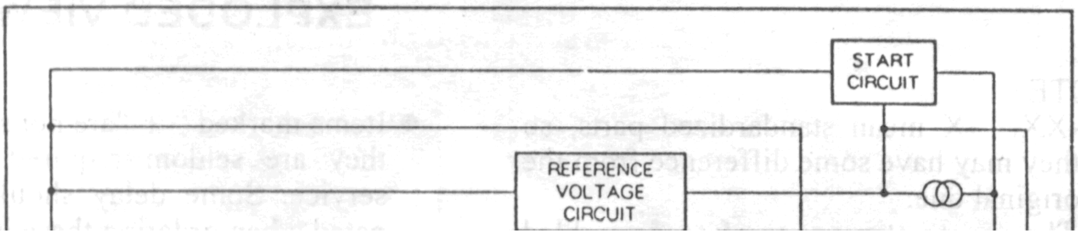
- B+
- B −
- Volta
no-sig
- Volta
Volta
tolera
- Signa
⇨
- Abbre
G :
MX :
SP :

• IC BLOCK DIAGRAMS

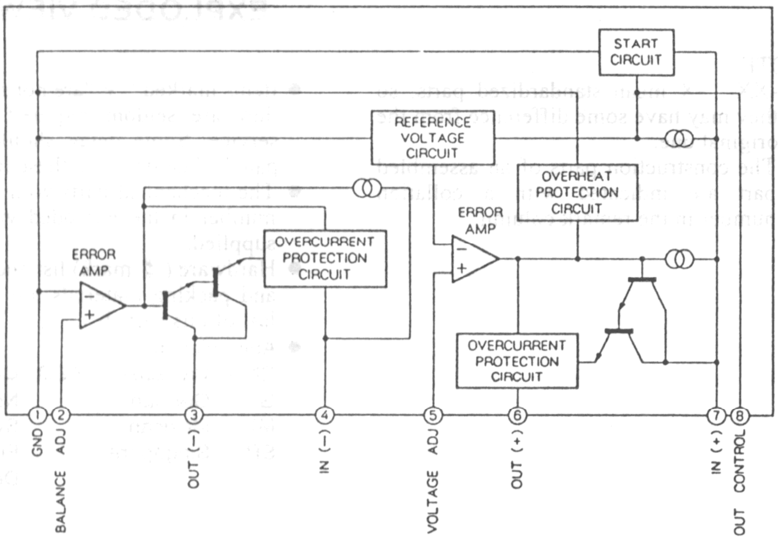
IC602 μPC1237HA


OVER LOAD DET
OFFSET DET
LATCH/
AUTORESET
F/F
Vcc ON
MUTE
AC OFF
DET
Vcc
1
2
3
4
5
6
7
8

IC911 M5230L-A


START
CIRCUIT
REFERENCE
VOLTAGE
CIRCUIT

IC911 M5230L-A


START CIRCUIT
REFERENCE VOLTAGE CIRCUIT
OVERHEAT PROTECTION CIRCUIT
ERROR AMP
OVERCURRENT PROTECTION CIRCUIT
ERROR AMP
OVERCURRENT PROTECTION CIRCUIT
①
②
③
④
⑤
⑥
⑦
⑧
GND
BALANCE ADJ
OUT (−)
IN (−)
VOLTAGE ADJ
OUT (+)
IN (+)
OUT CONTROL

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note : Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- **B+** : B+ Line
- **B −** : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviation
  G : German
  MX : Mexican
  SP : Singapore

SECTION 3
EXPLODED VIEWS

-X mean standardized parts, so ay have some difference from the l one.

nstruction parts of an assembled re indicated with a collation r in the remark column.

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND	: Canadian	AED	: German
G	: German		Norway
MX	: Mexican		Sweden
SP	: Singapore		Finland
			Denmark

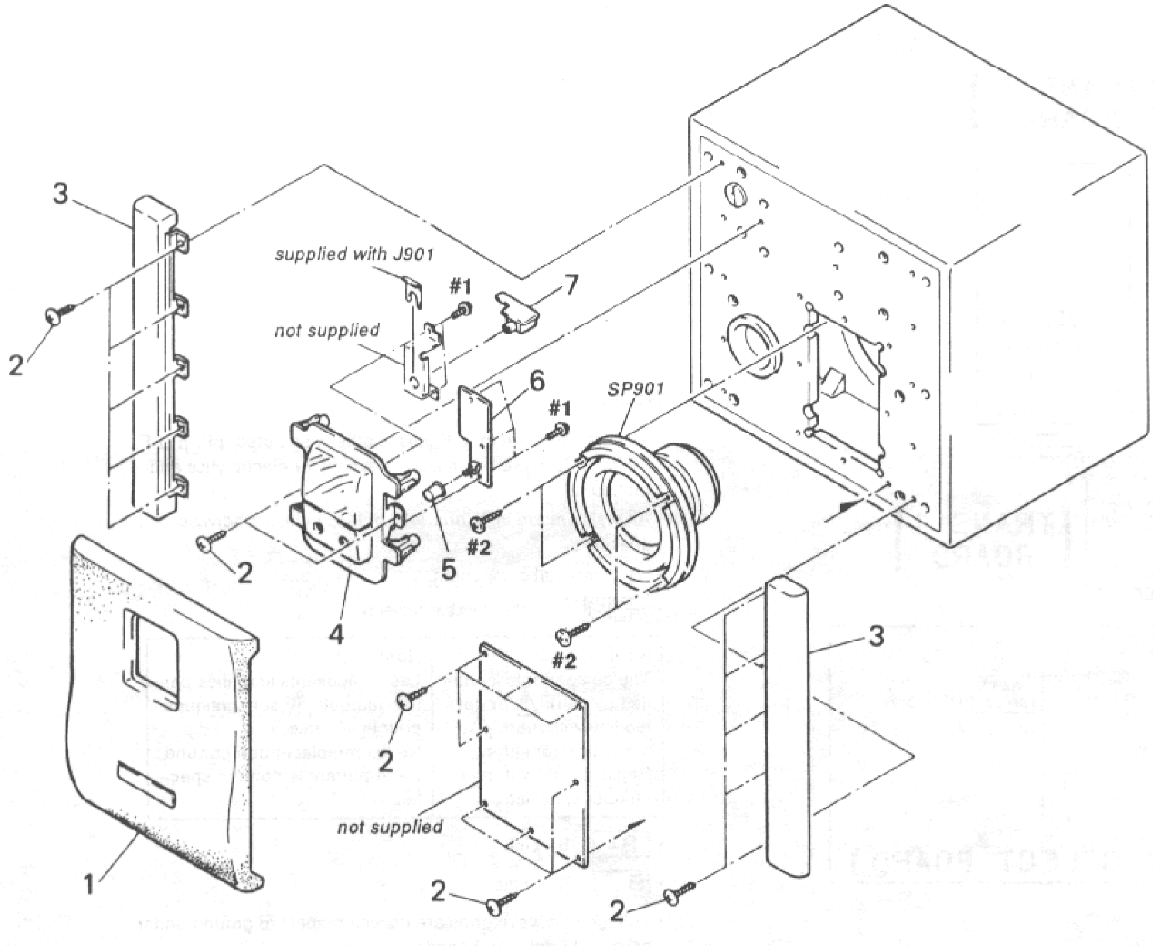
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-2. REAR

▲A : P

▲B : J

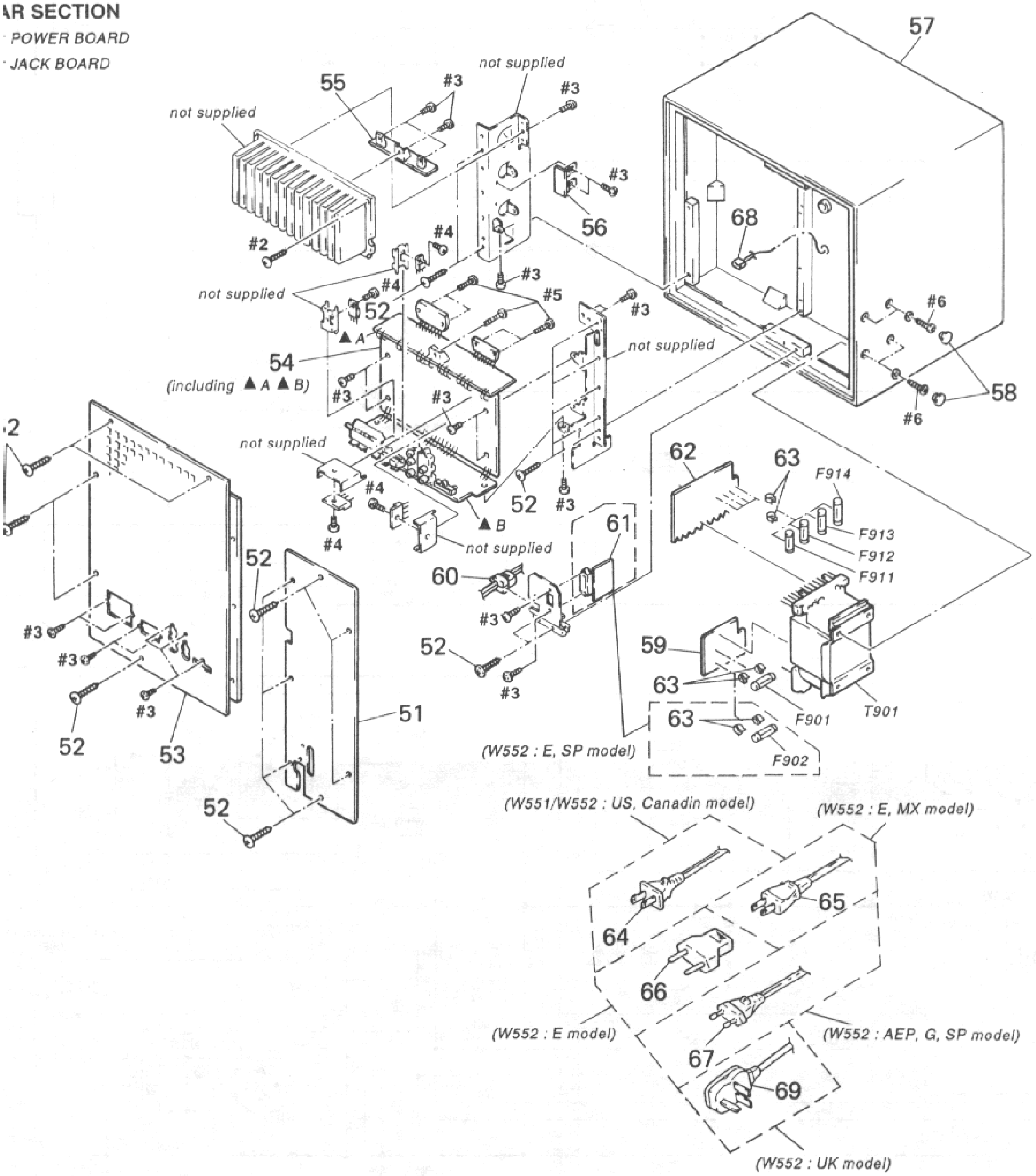


Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
X-4945-587-1	FRAME ASSY, GRILLE (W552)		5	4-964-705-01	BUTTON (RANGE)	
X-4945-651-1	FRAME ASSY, GRILLE (W551)		* 6	1-655-199-11	LED BOARD	
4-929-125-11	SCREW (M4×16), TAPPING		* 7	1-655-200-11	H.P BOARD	
4-962-846-01	PANEL, SIDE		SP901	1-504-515-11	SPEAKER (20CM)	
X-4945-577-1	PANEL (A) ASSY, TOP					

R SECTION

POWER BOARD

JACK BOARD



57
not supplied
55
#3
#3
not supplied
#3
56
68
#2
#4
not supplied
#4
52
▲A
#3
#5
#3
not supplied
#6
54
(including ▲A ▲B)
#3
#3
58
#6
2
not supplied
62
63
F914
#4
52
#3
#4
▲B
61
F913
F912
F911
not supplied
52
60
#3
#3
52
59
#3
63
#3
T901
#3
52
51
63
F901
52
53
(W552 : E, SP model)
F902
52
(W551/W552 : US, Canadin model)
(W552 : E, MX model)
65
64
66
(W552 : E model)
(W552 : AEP, G, SP model)
67
69
(W552 : UK model)

Ref. No.
* 51
* 51
52
53
53
53
53
53
53
53
53
* 54
* 54
* 54
* 54
* 55
* 56
* 57
* 57
* 57
58
58
* 59
* 60
60
* 61
* 62

Ref. No.	Part No.	Description	Remark
* 51	4-971-589-01	BOARD (S), BACK (W551/W552:US, CND, AEP, UK, G, MX)	
* 51	4-971-589-11	BOARD (S), BACK (W552:E, SP)	
52	4-874-614-21	SCREW (4) (3.5×14), TAPPING	
53	X-4945-722-1	BOARD (L) ASSY, BACK (W551)	
53	X-4945-723-1	BOARD (L) ASSY, BACK (W552:US)	
53	X-4945-751-1	BOARD (L) ASSY, BACK (W552:MX)	
53	X-4945-752-1	BOARD (L) ASSY, BACK (W552:CND)	
53	X-4945-753-1	BOARD (L) ASSY, BACK (W552:E)	
53	X-4945-754-1	BOARD (L) ASSY, BACK (W552:UK)	
53	X-4945-755-1	BOARD (L) ASSY, BACK (W552:SP)	
53	X-4945-886-1	BOARD (L) ASSY, BACK (W552:AEP, G)	
* 54	A-4377-196-A	MAIN BOARD, COMPLETE (W551/W552:US, CND)	
* 54	A-4377-466-A	MAIN BOARD, COMPLETE (W552:MX)	
* 54	A-4377-468-A	MAIN BOARD, COMPLETE (W552:E, SP	
* 54	A-4377-730-A	MAIN BOARD, COMPLETE (W552:AEP, UK, G)	
* 55	1-655-201-11	REAR BOARD	
* 56	1-655-202-11	IC BOARD	
* 57	A-4361-274-A	CABINET ASSY, SPEAKER (W552:US, CND, AEP, UK, E, MX, SP)	
* 57	A-4361-334-A	CABINET ASSY, SPEAKER (W551)	
* 57	A-4361-447-A	CABINET ASSY, SPEAKER (W552:AED, G)	
58	4-965-090-01	CAP (BROWN) (W551)	
58	4-965-090-12	CAP (BLACK) (W552)	
* 59	1-655-203-11	TRANS 1 BOARD	
* 60	3-703-244-00	BUSHING (2104), CORD (EXCEPT W552:E, MX)	
60	3-703-571-11	BUSHING (S) (4516), CORD (W552:E, MX)	
* 61	1-655-649-11	AC SELECT BOARD (W552:E, SP)	
* 62	1-655-204-11	TRANS 2 BOARD	

Ref. No.	Part No.	Description	Remark
63	1-533-293-11	FUSE HOLDER	
⚠64	1-690-609-12	CORD, POWER (W551/W552:US, CND)	
⚠65	1-575-653-11	CORD, POWER (W552:E, MX)	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P (W552:E)	
⚠67	1-575-651-11	CORD, POWER (W552:AEP, G, SP)	
68	1-769-278-11	CORD, CONNECTION	
⚠69	1-751-521-21	CORD, POWER (W552:UK)	
⚠F901	1-532-505-51	FUSE, TIME LAG (T5.0AL) (W552:E, SP)	
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (T6.3A/250V) (W552:MX)	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (AEP, UK, G)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/250V) (W551/W552:US, CND)	
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5A/250V) (W552:E, SP)	
⚠F911	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F911	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F912	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F912	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F913	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F913	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠F914	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F914	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W551/W552:US, CND)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W552:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W552:AEP, UK, G)	
⚠T901	1-427-809-11	TRANSFORMER, POWER (W552:E, SP)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 4
ELECTRICAL PARTS LIST

AC SELECT | H.P | IC | LED

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  G : German
  MX : Mexican
  SP : Singapore

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	1-655-649-11	AC SELECT BOARD (W552:E,SP)	
		***************	
		< CONNECTOR >	
CN920	1-564-321-00	PIN, CONNECTOR 2P (W552:E,SP)	
CN921	1-770-128-11	PIN, CONNECTOR 2P (W552:E,SP)	
		< SWITCH >	
⚠S921	1-571-309-31	SWITCH (VOLTAGE SELECTOR) (W552:E,SP)	
**			
*	1-655-200-11	H.P BOARD	
		*********	
		< CAPACITOR >	
C933	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C934	1-162-306-11	CERAMIC 0.01uF 30% 16V	
**			
*	1-655-202-11	IC BOARD	
		********	
		< IC >	
IC913	8-759-604-90	IC M5F7907L	
		< TRANSISTOR >	
Q913	8-729-141-83	TRANSISTOR 2SB1094-LK	
**			
*	1-655-199-11	LED BOARD	
		*********	
		< CAPACITOR >	
C935	1-124-927-11	ELECT 4.7uF 20% 100V	
C936	1-124-907-11	ELECT 10uF 20% 50V	
C939	1-124-927-11	ELECT 4.7uF 20% 100V	
C940	1-124-907-11	ELECT 10uF 20% 50V	
C945	1-164-159-11	CERAMIC 0.1uF 50V	
C946	1-164-159-11	CERAMIC 0.1uF 50V	
		< DIODE >	
D922	8-719-304-31	LED SEL4214S (100)	
D923	8-719-304-31	LED SEL4214S	
D924	8-719-304-31	LED SEL4214S (50)	
D925	8-719-304-31	LED SEL4214S	
D926	8-719-304-31	LED SEL4214S (0)	
D927	8-719-304-31	LED SEL4214S (PHASE)	
D928	8-719-304-31	LED SEL4214S (POWER)	
D932	8-719-304-31	LED SEL4214S (100)	
D933	8-719-304-31	LED SEL4214S	
D934	8-719-304-31	LED SEL4214S (50)	
D935	8-719-304-31	LED SEL4214S-D-TP6	
D936	8-719-304-31	LED SEL4214S-D-TP6 (0)	
		< IC >	
IC901	8-759-801-04	IC LB1403N	
IC902	8-759-801-04	IC LB1403N	
		< TRANSISTOR >	
Q921	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< RESISTOR >	
R930	1-249-439-11	CARBON 68K 5% 1/4W	
R932	1-249-439-11	CARBON 68K 5% 1/4W	
R933	1-249-441-11	CARBON 100K 5% 1/4W	
R934	1-249-403-11	CARBON 68 5% 1/4W	
R935	1-249-441-11	CARBON 100K 5% 1/4W	
R936	1-249-403-11	CARBON 68 5% 1/4W	
R938	1-249-437-11	CARBON 47K 5% 1/4W	
R939	1-249-417-11	CARBON 1K 5% 1/4W	
R940	1-249-421-11	CARBON 2.2K 5% 1/4W	
R942	1-249-421-11	CARBON 2.2K 5% 1/4W	
R943	1-249-417-11	CARBON 1K 5% 1/4W	
R945	1-249-429-11	CARBON 10K 5% 1/4W	
R946	1-249-429-11	CARBON 10K 5% 1/4W	
		< SWITCH >	
S951	1-572-714-11	SWITCH, PUSH (LEVEL METER)	
**			

Ref. No.	Part No.	Description				Remark
*	A-4377-196-A	MAIN BOARD, COMPLETE				(W551/W552:US, CND)
*	A-4377-466-A	MAIN BOARD, COMPLETE				(W552:MX)
*	A-4377-468-A	MAIN BOARD, COMPLETE				(W552:E, SP)
*	A-4377-730-A	MAIN BOARD, COMPLETE				(W552:AEP, UK, G)
		********************				
		(Including JACK, POWER BOARDS)				
		< CAPACITOR >				
C600	1-136-165-00	FILM	0.1uF	5%	50V	
C601	1-124-927-11	ELECT	4.7uF	20%	100V	
C602	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C604	1-124-927-11	ELECT	4.7uF	20%	100V	
C605	1-162-286-21	CERAMIC	220PF	10%	50V	
C606	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C607	1-124-910-11	ELECT	47uF	20%	50V	
C608	1-124-667-11	ELECT	10uF	20%	100V	
C610	1-130-493-00	MYLAR	0.068uF	5%	50V	
C611	1-124-667-11	ELECT	10uF	20%	100V	
C613	1-104-664-11	ELECT	47uF	20%	25V	
C614	1-126-933-11	ELECT	100uF	20%	10V	
C615	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C616	1-124-907-11	ELECT	10uF	20%	50V	
C617	1-104-664-11	ELECT	47uF	20%	25V	
C618	1-124-907-11	ELECT	10uF	20%	50V	
C619	1-124-667-11	ELECT	10uF	20%	100V	
C621	1-162-290-31	CERAMIC	470PF	10%	50V	(W552:AEP, UK, G)
C650	1-136-165-00	FILM	0.1uF	5%	50V	
C651	1-124-927-11	ELECT	4.7uF	20%	100V	
C652	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C654	1-124-927-11	ELECT	4.7uF	20%	100V	
C655	1-162-286-21	CERAMIC	220PF	10%	50V	
C656	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C657	1-124-910-11	ELECT	47uF	20%	50V	
C660	1-130-493-00	MYLAR	0.068uF	5%	50V	
C665	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C669	1-124-907-11	ELECT	10uF	20%	50V	
C670	1-124-907-11	ELECT	10uF	20%	50V	
C671-673	1-124-902-00	ELECT	0.47uF	20%	50V	
C674	1-124-252-00	ELECT	0.33uF	20%	50V	
C675	1-124-252-00	ELECT	0.33uF	20%	50V	
C676	1-136-166-00	FILM	0.12uF	5%	50V	
C677	1-124-902-00	ELECT	0.47uF	20%	50V	
C678	1-136-172-00	FILM	0.39uF	5%	50V	
C681	1-124-927-11	ELECT	4.7uF	20%	100V	
C682	1-162-286-21	CERAMIC	220PF	10%	50V	
C683	1-162-286-21	CERAMIC	220PF	10%	50V	
C684	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C685	1-124-910-11	ELECT	47uF	20%	50V	
C686	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C688	1-124-903-11	ELECT	1uF	20%	50V	
C689	1-104-664-11	ELECT	47uF	20%	25V	
C690	1-124-910-11	ELECT	47uF	20%	50V	
C691	1-126-176-11	ELECT	220uF	20%	10V	
C692	1-124-910-11	ELECT	47uF	20%	50V	
C693	1-124-910-11	ELECT	47uF	20%	50V	
C694	1-162-282-31	CERAMIC	100PF	10%	50V	
C695	1-162-282-31	CERAMIC	100PF	10%	50V	
C699	1-162-282-31	CERAMIC	100PF	10%	50V	(W551/W552:US, CND, E, MX, SP)
C699	1-162-302-11	CERAMIC	0.0022uF	30%	16V	(W552:AEP, UK, G)
C705	1-136-162-00	MYLAR	0.056uF	10%	50V	(W552:AEP, UK, G)
C707	1-162-294-31	CERAMIC	0.001uF	10%	50V	(W552:AEP, UK, G)
C708	1-162-294-31	CERAMIC	0.001uF	10%	50V	(W552:AEP, UK, G)
C755	1-136-162-00	MYLAR	0.056uF	10%	50V	(W552:AEP, UK, G)
⚠C901	1-161-744-51	CERAMIC	0.01uF		400V	(W552:AEP, UK, G, E, SP)
C902	1-164-097-11	CERAMIC	0.022uF		50V	
C903	1-126-943-11	ELECT	2200uF	20%	25V	
C911	1-106-367-00	MYLAR	0.01uF	5%	200V	(W551/W552:US, CND, E, MX, SP)
C911	1-106-228-00	MYLAR	0.22uF	5%	100V	(W552:AEP, UK, G)
C912	1-106-367-00	MYLAR	0.01uF	5%	200V	(W551/W552:US, CND, E, MX, SP)
C912	1-106-228-00	MYLAR	0.22uF	5%	100V	(W552:AEP, UK, G)
C913	1-164-097-11	CERAMIC	0.022uF		50V	(W551/W552:US, CND, E, MX, SP)
C913	1-136-172-00	FILM	0.39uF	5%	50V	(W552:AEP, UK, G)
C914	1-164-097-11	CERAMIC	0.022uF		50V	(W551/W552:US, CND, E, MX, SP)
C914	1-136-172-00	FILM	0.39uF	5%	50V	(W552:AEP, UK, G)
C915	1-164-097-11	CERAMIC	0.022uF		50V	(W551/W552:US, CND, E, MX, SP)
C915	1-136-165-00	FILM	0.1uF	5%	50V	(W552:AEP, UK, G)
C916	1-164-097-11	CERAMIC	0.022uF		50V	(W551/W552:US, CND, E, MX, SP)
C916	1-136-165-00	FILM	0.1uF	5%	50V	(W552:AEP, UK, G)
C917	1-128-493-11	ELECT	4700uF	20%	63V	(W551/W552:US, CND, AEP, UK, G, E, SP)

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MAIN

Ref. No.	Part No.	Description	Remark
C917	1-126-258-11	ELECT 4700uF 20% 56V	(W552:MX)
C918	1-128-493-11	ELECT 4700uF 20% 63V	(W551/W552:US, CND, AEP, UK, G, E, SP)
C918	1-126-258-11	ELECT 4700uF 20% 56V	(W552:MX)
C919	1-126-955-11	ELECT 4700uF 20% 35V	
C920	1-126-955-11	ELECT 4700uF 20% 35V	
C921	1-126-937-11	ELECT 4700uF 20% 16V	
C922	1-124-556-11	ELECT 2200uF 20% 16V	
C923	1-124-907-11	ELECT 10uF 20% 50V	
C924	1-124-907-11	ELECT 10uF 20% 50V	
C925	1-124-925-11	ELECT 2. 2uF 20% 100V	
C926	1-124-907-11	ELECT 10uF 20% 50V	
C927	1-124-907-11	ELECT 10uF 20% 50V	
C928	1-124-903-11	ELECT 1uF 20% 50V	
C929	1-124-472-11	ELECT 470uF 20% 10V	
C930	1-124-472-11	ELECT 470uF 20% 10V	
C931	1-124-472-11	ELECT 470uF 20% 10V	
C932	1-124-472-11	ELECT 470uF 20% 10V	
C937	1-124-903-11	ELECT 1uF 20% 50V	
C943	1-124-907-11	ELECT 10uF 20% 50V	
C944	1-124-907-11	ELECT 10uF 20% 50V	
C947	1-162-306-11	CERAMIC 0. 01uF 30% 16V	
C960	1-162-306-11	CERAMIC 0. 01uF 30% 16V	
C961	1-162-306-11	CERAMIC 0. 01uF 30% 16V	
		< CONNECTOR >	
* CN902	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)	
CN905	1-770-128-11	PIN, CONNECTOR 2P	(W552:E, SP)
* CN906	1-506-944-11	PIN, CONNECTOR 2P	
CN907	1-564-321-00	PIN, CONNECTOR 2P	
CN908	1-770-128-11	PIN, CONNECTOR 2P	(W551/W552:US, CND, AEP, UK, G, MX)
* CN908	1-564-687-11	PIN, CONNECTOR 3P	(W552:E, SP)
* CN911	1-506-530-11	PIN, CONNECTOR 11P	
CN913	1-564-506-11	PLUG, CONNECTOR 3P	
* CN914	1-564-506-11	PLUG, CONNECTOR 3P	
* CN921	1-568-934-11	PIN, CONNECTOR 7P	
		< DIODE >	
D601	8-719-815-85	DIODE 1S1585	
D602	8-719-815-85	DIODE 1S1585	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-987-63	DIODE 1N4148M	
D631	8-719-987-63	DIODE 1N4148M	
D651	8-719-815-85	DIODE 1S1585	
D671	8-719-987-63	DIODE 1N4148M	
D672	8-719-987-63	DIODE 1N4148M	
D681	8-719-987-63	DIODE 1N4148M	
D691	8-719-987-63	DIODE 1N4148M	
D901	8-719-200-82	DIODE 11ES2	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-200-82	DIODE 11ES2	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-987-63	DIODE 1N4148M	
D911	8-719-500-60	DIODE D5SBA20	
D912	8-719-500-60	DIODE D5SBA20	
D913	8-719-200-82	DIODE 11ES2	
D914	8-719-200-82	DIODE 11ES2	
D915	8-719-200-82	DIODE 11ES2	
D916	8-719-200-82	DIODE 11ES2	
D917	8-719-002-48	DIODE UZL-27H	
D918	8-719-014-74	DIODE UZP-6. 2B	
D919	8-719-987-63	DIODE 1N4148M	
D920	8-719-987-63	DIODE 1N4148M	
D942	8-719-987-63	DIODE 1N4148M	
		< GROUND TERMINAL >	
EB901	1-537-770-11	TERMINAL BOARD, GROUND	
EB902	1-537-770-11	TERMINAL BOARD, GROUND	
		< IC >	
IC601	8-749-921-68	IC STK-4231MK2	(W551/W552:US, CND)
IC601	8-749-922-65	IC STK-4221MK2	(W552:AEP, UK, G, E, MX, SP)
IC602	8-759-111-68	IC uPC1237HA	
IC631	8-759-085-89	IC LM3875-S	
IC641	8-759-085-89	IC LM3875-S	
IC651	8-759-634-50	IC M5218AL	
IC652	8-759-634-50	IC M5218AL	
IC653	8-759-634-50	IC M5218AL	
IC681	8-749-940-30	IC STK-4030II	
IC911	8-759-602-66	IC M5230L-A	
IC912	8-759-604-86	IC M5F7807	
		< JACK >	
J901	1-569-113-11	JACK, LARGE TYPE (HEADPHONES)	
		< COIL >	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	(W552:AEP, UK, G)
L751	1-420-872-00	COIL, AIR-CORE	(W552:AEP, UK, G)
		< JACK >	
PJ601	1-764-406-11	JACK BLOCK, PIN 3P (INPUT, FRONT/SUPER WOOFER)	
PJ602	1-764-405-11	JACK BLOCK, PIN 2P (INPUT, REAR/CENTER)	

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q602	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q603	8-729-143-49	TRANSISTOR	2SD1312-LKU			
Q604	8-729-900-63	TRANSISTOR	DTA124ES			
Q605	8-729-900-36	TRANSISTOR	DTC124ES			
Q606	8-729-900-63	TRANSISTOR	DTA124ES			
Q652	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q671	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q911	8-729-141-83	TRANSISTOR	2SB1094-LK			
Q912	8-729-209-15	TRANSISTOR	2SD2012			
Q914	8-729-119-77	TRANSISTOR	2SA1175-FEK			
		< RESISTOR >				
⚠R600	1-249-451-61	CARBON	2.2	5%	1/4W	F
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R605	1-249-923-11	CARBON	1K	5%	1/4W	F
R606	1-249-413-11	CARBON	470	5%	1/4W	
R608	1-249-438-11	CARBON	56K	5%	1/4W	
R609	1-249-425-11	CARBON	4.7K	5%	1/4W	
R610	1-249-421-11	CARBON	2.2K	5%	1/4W	
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R612	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R613	1-249-923-11	CARBON	1K	5%	1/4W	F
R614	1-247-863-91	CARBON	22K	5%	1/4W	
R615	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R616	1-214-789-00	RES, METAL PLATE			0.1	
R617-620	1-249-393-11	CARBON	10	5%	1/4W	
⚠R621	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F (W551/W552:US, CND)
⚠R621	1-216-480-11	METAL OXIDE	820	5%	3W	F (W552:AEP, UK, G, E, MX, SP)
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-249-435-11	CARBON	33K	5%	1/4W	
R624	1-249-425-11	CARBON	4.7K	5%	1/4W	
R625	1-249-437-11	CARBON	47K	5%	1/4W	
R626	1-249-427-11	CARBON	6.8K	5%	1/4W	
R627	1-249-441-11	CARBON	100K	5%	1/4W	
R628	1-249-439-11	CARBON	68K	5%	1/4W	
R629	1-249-432-11	CARBON	18K	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R637	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R638	1-260-091-11	CARBON	220	5%	1/2W	F
R639	1-247-863-91	CARBON	22K	5%	1/4W	
R647	1-249-435-11	CARBON	33K	5%	1/4W	
R649	1-249-432-11	CARBON	18K	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-247-887-00	CARBON	220K	5%	1/4W	
R653	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R655	1-249-405-11	CARBON	100	5%	1/4W	F
R656	1-249-413-11	CARBON	470	5%	1/4W	
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-425-11	CARBON	4.7K	5%	1/4W	
R660	1-249-421-11	CARBON	2.2K	5%	1/4W	
R661	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R662	1-249-405-11	CARBON	100	5%	1/4W	F
R663	1-249-429-11	CARBON	10K	5%	1/4W	
R664	1-247-863-91	CARBON	22K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R666	1-214-789-00	RES, METAL PLATE			0.1	
R667-670	1-249-393-11	CARBON	10	5%	1/4W	
R671	1-249-427-11	CARBON	6.8K	5%	1/4W	
R672	1-247-807-31	CARBON	100	5%	1/4W	
R673	1-249-429-11	CARBON	10K	5%	1/4W	
R674	1-249-429-11	CARBON	10K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-417-11	CARBON	1K	5%	1/4W	
R677	1-249-429-11	CARBON	10K	5%	1/4W	
R678	1-249-429-11	CARBON	10K	5%	1/4W	
R679	1-249-425-11	CARBON	4.7K	5%	1/4W	
R680	1-249-435-11	CARBON	33K	5%	1/4W	
R681	1-249-417-11	CARBON	1K	5%	1/4W	
R682	1-249-435-11	CARBON	33K	5%	1/4W	
R683	1-249-413-11	CARBON	470	5%	1/4W	
R684	1-249-435-11	CARBON	33K	5%	1/4W	
R687	1-247-863-91	CARBON	22K	5%	1/4W	
R689	1-247-863-91	CARBON	22K	5%	1/4W	
R690	1-249-425-11	CARBON	4.7K	5%	1/4W	
R691	1-249-429-11	CARBON	10K	5%	1/4W	
R692	1-249-425-11	CARBON	4.7K	5%	1/4W	
R693	1-249-437-11	CARBON	47K	5%	1/4W	
R694	1-249-429-11	CARBON	10K	5%	1/4W	
R695	1-249-421-11	CARBON	2.2K	5%	1/4W	
R696	1-249-418-11	CARBON	1.2K	5%	1/4W	
R697	1-247-878-00	CARBON	91K	5%	1/4W	
R698	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R699	1-249-405-11	CARBON	100	5%	1/4W	F
R701	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R702	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R705	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R751	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)

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MAIN **REAR** **TRANS 1**

Ref. No.	Part No.	Description				Remark
R752	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R755	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R901	1-202-725-00	SOLID	3.3M	10%	1/2W	(W551/W552:US, CND)
R905	1-249-425-11	CARBON	4.7K	5%	1/4W	
R906	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R911	1-215-890-11	METAL OXIDE	470	5%	2W	F
R912	1-249-427-11	CARBON	6.8K	5%	1/4W	
R913	1-247-807-31	CARBON	100	5%	1/4W	
R914	1-247-807-31	CARBON	100	5%	1/4W	
R915	1-249-409-11	CARBON	220	5%	1/4W	
R916	1-247-903-00	CARBON	1M	5%	1/4W	
R917	1-249-415-11	CARBON	680	5%	1/4W	
R918	1-249-425-11	CARBON	4.7K	5%	1/4W	
R919	1-249-415-11	CARBON	680	5%	1/4W	
R920	1-249-409-11	CARBON	220	5%	1/4W	
R921	1-247-862-11	CARBON	20K	5%	1/4W	
R922	1-249-417-11	CARBON	1K	5%	1/4W	
R923	1-249-417-11	CARBON	1K	5%	1/4W	
R929	1-249-381-11	CARBON	1	5%	1/4W	
R931	1-249-381-11	CARBON	1	5%	1/4W	
R937	1-249-425-11	CARBON	4.7K	5%	1/4W	
R941	1-249-431-11	CARBON	15K	5%	1/4W	
R950-953	1-249-419-11	CARBON	1.5K	5%	1/4W	
⚠R960	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R961	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R962	1-249-381-11	CARBON	1	5%	1/4W	F
		< RELAY >				
RY601	1-515-741-11	RELAY				
RY602	1-515-920-11	RELAY (24V)				
RY603	1-515-920-11	RELAY (24V)				
⚠RY901	1-515-999-11	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-450-361-11	TRANSFORMER, POWER				(W551/W552:US, CND, MX)
⚠T902	1-450-358-11	TRANSFORMER, POWER				(W552:AEP, UK, G, E, SP)
		< TERMINAL >				
TM901	1-537-376-11	TERMINAL BOARD (SP)				(FRONT/REAR SPEAKER)
TM902	1-536-707-21	TERMINAL BOARD, PUSH 2P				(CENTER SPEAKER)

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Ref. No.	Part No.	Description				Remark
*	1-655-201-11	REAR BOARD **********				
		< CAPACITOR >				
C631	1-124-927-11	ELECT	4.7uF	20%	100V	
C632	1-162-286-21	CERAMIC	220PF	10%	50V	
C633	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C634	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C635	1-124-907-11	ELECT	10uF	20%	50V	
C636	1-124-907-11	ELECT	10uF	20%	50V	
C639	1-124-477-11	ELECT	47uF	20%	25V	
C641	1-124-927-11	ELECT	4.7uF	20%	100V	
C642	1-162-286-21	CERAMIC	220PF	10%	50V	
C643	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C644	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C645	1-124-907-11	ELECT	10uF	20%	50V	
C646	1-124-907-11	ELECT	10uF	20%	50V	
C649	1-104-664-11	ELECT	47uF	20%	25V	
		< CONNECTOR >				
* CN915	1-564-508-11	PLUG, CONNECTOR 5P				
CN918	1-564-506-11	PLUG, CONNECTOR 3P				
		< RESISTOR >				
R631	1-247-807-31	CARBON	100	5%	1/4W	
R632	1-249-425-11	CARBON	4.7K	5%	1/4W	
R633	1-249-409-11	CARBON	220	5%	1/4W	
R634	1-249-431-11	CARBON	15K	5%	1/4W	
R641	1-247-807-31	CARBON	100	5%	1/4W	
R642	1-249-425-11	CARBON	4.7K	5%	1/4W	
R643	1-249-409-11	CARBON	220	5%	1/4W	
R644	1-249-431-11	CARBON	15K	5%	1/4W	

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Ref. No.	Part No.	Description	Remark
*	1-655-203-11	TRANS 1 BOARD *************	
		< FUSE >	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15A/250V)	(AEP, UK, G)
⚠F901	1-532-505-51	FUSE, TIME LAG (T5.0AL)	(W552:E, SP)
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3A/250V)	(W552:MX)
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V)	(W551/W552:US, CND)
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5A/250V)	(W552:E, SP)

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Ref. No.	Part No.	Description	Remark
*	1-655-204-11	TRANS 2 BOARD *************	
		< FUSE HOLDER >	
	1-533-293-11	FUSE HOLDER	
		< FUSE >	
⚠F911	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F911	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F912	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F912	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F913	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F913	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠F914	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F914	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
⚠64	1-690-609-12	CORD, POWER (W551/W552:US, CND)	
⚠65	1-575-653-11	CORD, POWER (W552:E, MX)	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P (W552:E)	
⚠67	1-575-651-11	CORD, POWER (W552:AEP, G, SP)	
68	1-769-278-11	CORD, CONNECTION	
⚠69	1-751-521-21	CORD, POWER (W552:UK)	
SP901	1-504-515-11	SPEAKER (20CM)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W551/W552:US, CND)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W552:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W552:AEP, UK, G)	
⚠T901	1-427-809-11	TRANSFORMER, POWER (W552:E, SP)	

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ACCESSORIES & PACKING MATERIALS
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Ref. No.	Part No.	Description	Remark
	3-798-201-11	MANUAL, INSTRUCTION (SPANISH) (W552:MX)	
	3-798-201-21	MANUAL, INSTRUCTION (ENGLISH) (W551/W552:US)	
	3-798-201-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (W552:CND)	
	3-798-201-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE, ARABIC) (W552:E, SP)	
	3-798-201-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH) (W552:AEP, UK)	
	3-798-201-61	MANUAL, INSTRUCTION (GERMAN, FINNISH, SPANISH, SWEDISH, DANISH) (W552:AEP, G)	
*	4-964-155-01	CUSHION (UPPER)	
*	4-964-156-01	CUSHION (LOWER)	
*	4-973-553-01	INDIVIDUAL CARTON (W552:US, CND, E, MX)	
*	4-973-554-01	INDIVIDUAL CARTON (W552:SP)	
*	4-973-555-01	INDIVIDUAL CARTON (W552:AE2, G)	
*	4-973-556-01	INDIVIDUAL CARTON (W551)	

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HARDWARE LIST
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Ref. No.	Part No.	Description	Remark
#1	7-685-134-19	SCREW +PTPWH 2.6×8 (TYPE2)	
#2	7-621-846-58	SCREW (4×20), TAPPING	
#3	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S	
#4	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S	
#5	7-685-650-79	SCREW +BVTP 3×16 TYPE2 IT-3	
#6	7-682-666-09	SCREW +PSW 4×20	

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